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1   Scalable high-speed prefix matching   95%
Marcel Waldvogel , George Varghese , Jon Turner , Bernhard Plattner
ACM Transactions on Computer Systems (TOCS) November 2001
Volume 19 Issue 4
> Finding the longest matching prefix from a database of keywords is an old problem with a number of applications, ranging from dictionary searches to advanced memory management to computational geometry. But perhaps today's most frequent best matching prefix lookups occur in the Internet, when forwarding packets from router to router. Internet traffic volume and link speeds are rapidly increasing; at the same time, a growing user population is increasing the size of routing tables against which p
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2   Pattern Matching in Trees   87%
Christoph M. Hoffmann , Michael J. O'Donnell
Journal of the ACM (JACM) January 1982
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Mikael Degermark , Andrej Brodnik , Svante Carlsson , Stephen Pink
ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication October

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Statistical modeling of sequences is a central paradigm of machine learning that finds multiple uses in computational molecular biology and many other domains. The probabilistic automata typically built in these contexts are subtended by uniform, fixed-memory Markov models. In practice, such automata tend to be unnecessarily bulky and computationally imposing both during their synthesis and use. In [8], much more compact, tree-shaped variants of probabilistic automata are built which assume ...

9 Data compression with finite windows   11%

E. R. Fiala , D. H. Greene
Communications of the ACM April 1989
Volume 32 Issue 4

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M. Al-Suwaiyel , E Horowitz
ACM Transactions on Database Systems (TODS) May 1984
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V. Srinivasan , S. Suri , G. Varghese
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ACM SIGCOMM Computer Communication Review, Proceedings of the
ACM SIGCOMM '98 conference on Applications, technologies,
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1998
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S. Rao Kosaraju , Arthur L. Delcher
Proceedings of the twenty-seventh annual ACM symposium on Theory
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ACM SIGAPL APL Quote Quad , Proceedings of the APL98 conference
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Butler W Lampson
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Suzanne Bunton , Gaetano Borriello
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Volume 35 Issue 1

17 LeZi-update 0%
Amiya Bhattacharya , Sajal K. Das
Wireless Networks March 2002
Volume 8 Issue 2/3
The complexity of the mobility tracking problem in a cellular
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information-theoretic framework. Shannon's entropy measure is
identified as a basis for comparing user mobility models. By
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This technique evolves out of the concepts of lossless
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